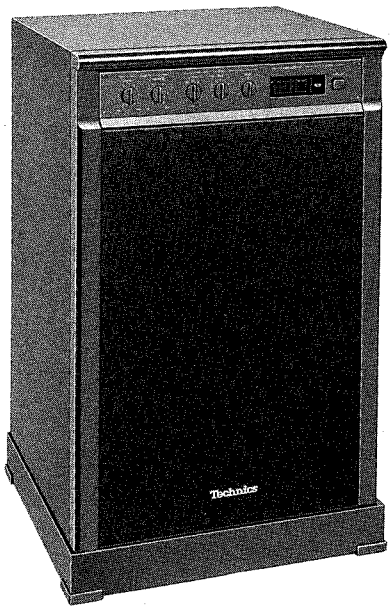
ORDER NO. EMID861137

Service Manual

TONE CABINET

SY-T80

(EN), (EI), (EH), (EB), (EF), (EZ), (EW), (EL), (EP), (EK), (MC), (XT), (XL), (XR), (XS), (X), (XX), (XV)



AREAS

(EN):	Norway, Sweden, Denmark	(MC):	Canada
(EI):	Italy	(XT):	Taiwan
(EH):	Holland	(XL):	New Zealand
(EB):	Belgium	(XR):	Australia
(EF):	France, Austria	(XS):	Malaysia, Singapore, South Africa
(EZ):	Germany	(X):	the Middle East, Hong Kong, the Philippines, Indonesia
(EW):	Switzerland	(XV):	Venezuela, Ecuador, Panama
(EL):	Finland	(XX):	Peru, Chile
(EP):	Spain		
(EK):	the United Kingdom		

Specifications

Speakers:	30cm (11-13/16″)×1, 16cm (6-5/16″)×1, horn tweeter ×1
Output:	150W (RMS)
Input:	1: pin jack, large jack, volume control 2: pin jack, large jack, volume control
Tone controls:	treble, bass, bass-turnover
Load indicator:	green (−15, −8, −3, 0dB), red (overload)
Others:	power switch, power indicator, noise limiter, compressor
Power requirement:	400W, 350VA (Canada) AC 120/220/240V 50/60Hz AC 120V 60Hz — North America
Cabinet (W×H×D):	49.8cm (19-19/32″)×76.8cm (30-1/4″)×44.3cm (17-7/16″)
Net weight:	36kg (79.4 lbs.)
Accessories:	pin-type cord, large plug cord, AC cord

Technics

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

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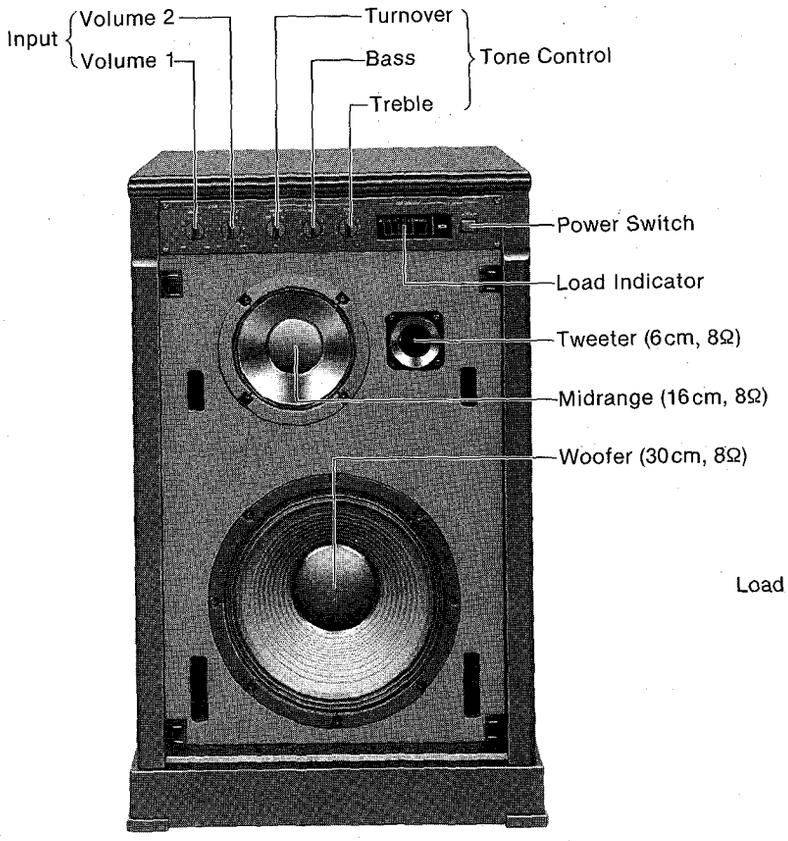
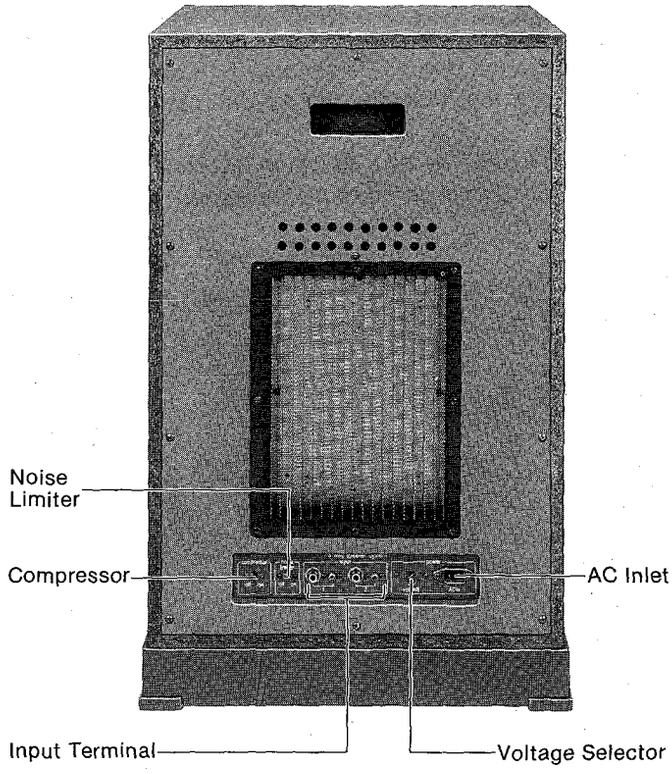
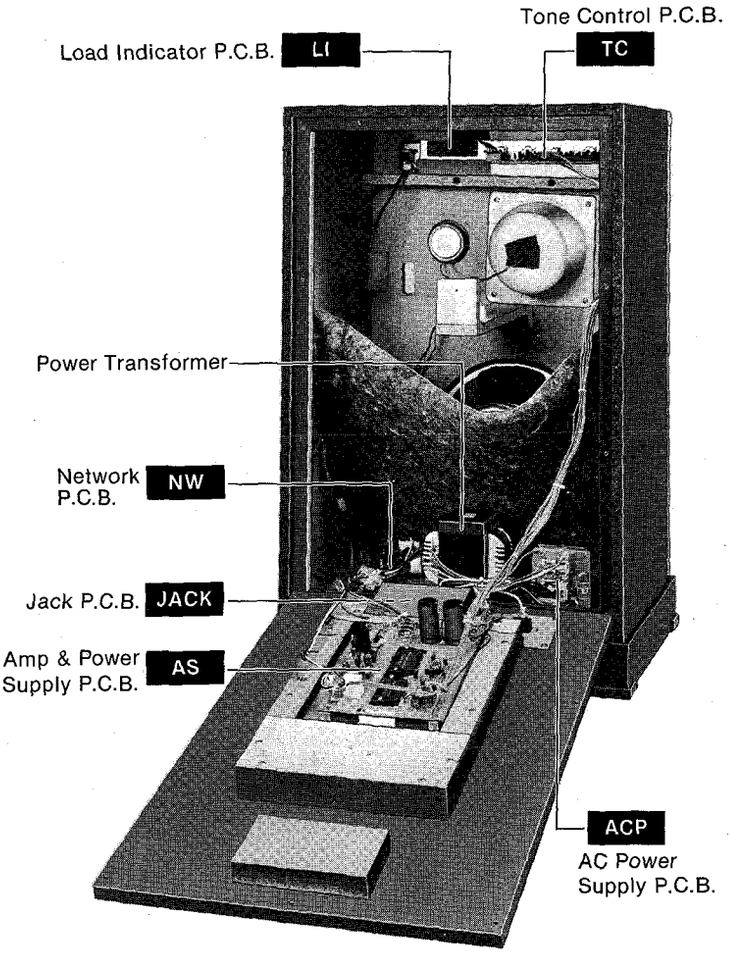
LOCATION OF CONTROLS AND PARTS



[Photo-1]



[Photo-2]



[Photo-3]

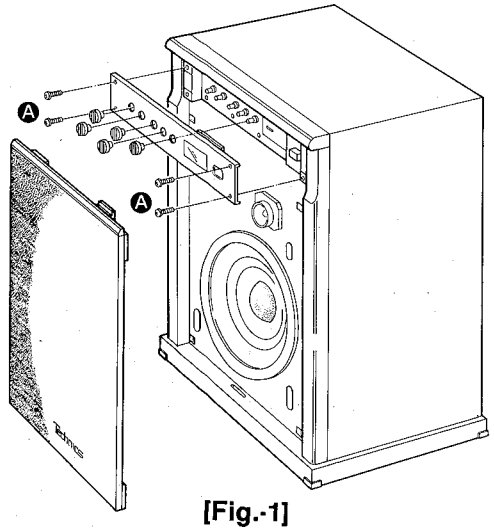
DISASSEMBLY INSTRUCTIONS

1. Control Panel

a) Pull out the all knobs located on the control panel.
b) Remove the 4 screws Ⓐ which fasten the control panel.
c) The control panel can then be removed.

2. Speaker Grille

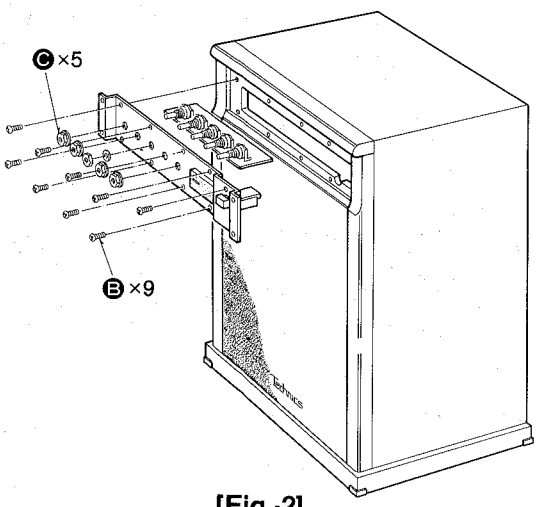
a) Remove the control panel according to step 1.
b) The speaker grille can be pull out.



[Fig.-1]

3. Tone Control P.C.B.

a) Remove the control panel according to step 1.
b) Remove the 9 screws Ⓑ which fasten the chassis.
c) Remove the 5 nuts Ⓒ which fasten the each volumes.
d) The tone control P.C.B. can then be removed.



[Fig.-2]

4. Speakers

• Woofer (30cm)

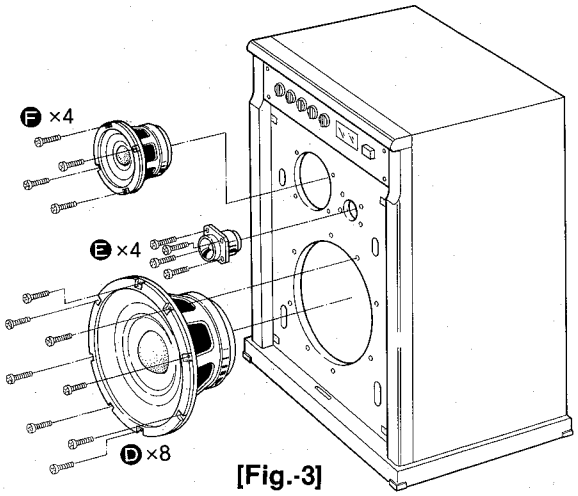
a) Remove the speaker grille according to step 2.
b) Remove the 8 screws Ⓓ which fasten the woofer.

• Tweeter (6cm)

a) Remove the 4 screws Ⓔ which fasten the tweeter.

• Midrange (16cm)

a) Remove the 4 screws Ⓕ which fasten the midrange speaker.



[Fig.-3]

5. Rear Board

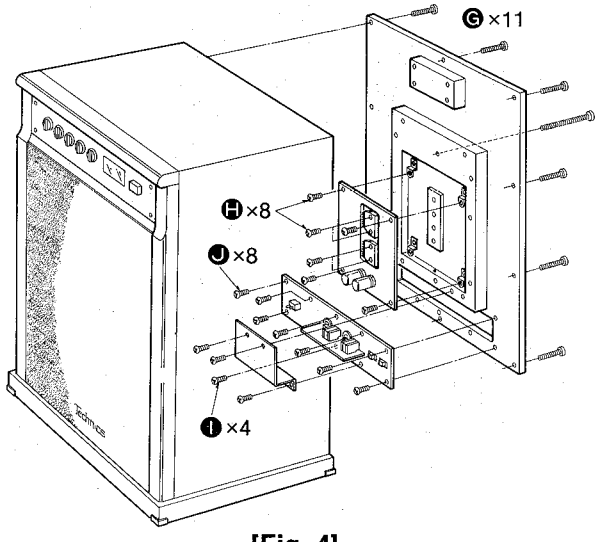
a) Remove the 11 screws Ⓖ located on the rear board.
b) The rear board can then be removed.

6. Amp & Power Supply (AS) P.C.B.

a) Remove the rear board according to step 5.
b) Remove the 8 screws Ⓗ which fasten the power IC and P.C.B.
c) The amp & power supply P.C.B. can then be removed.

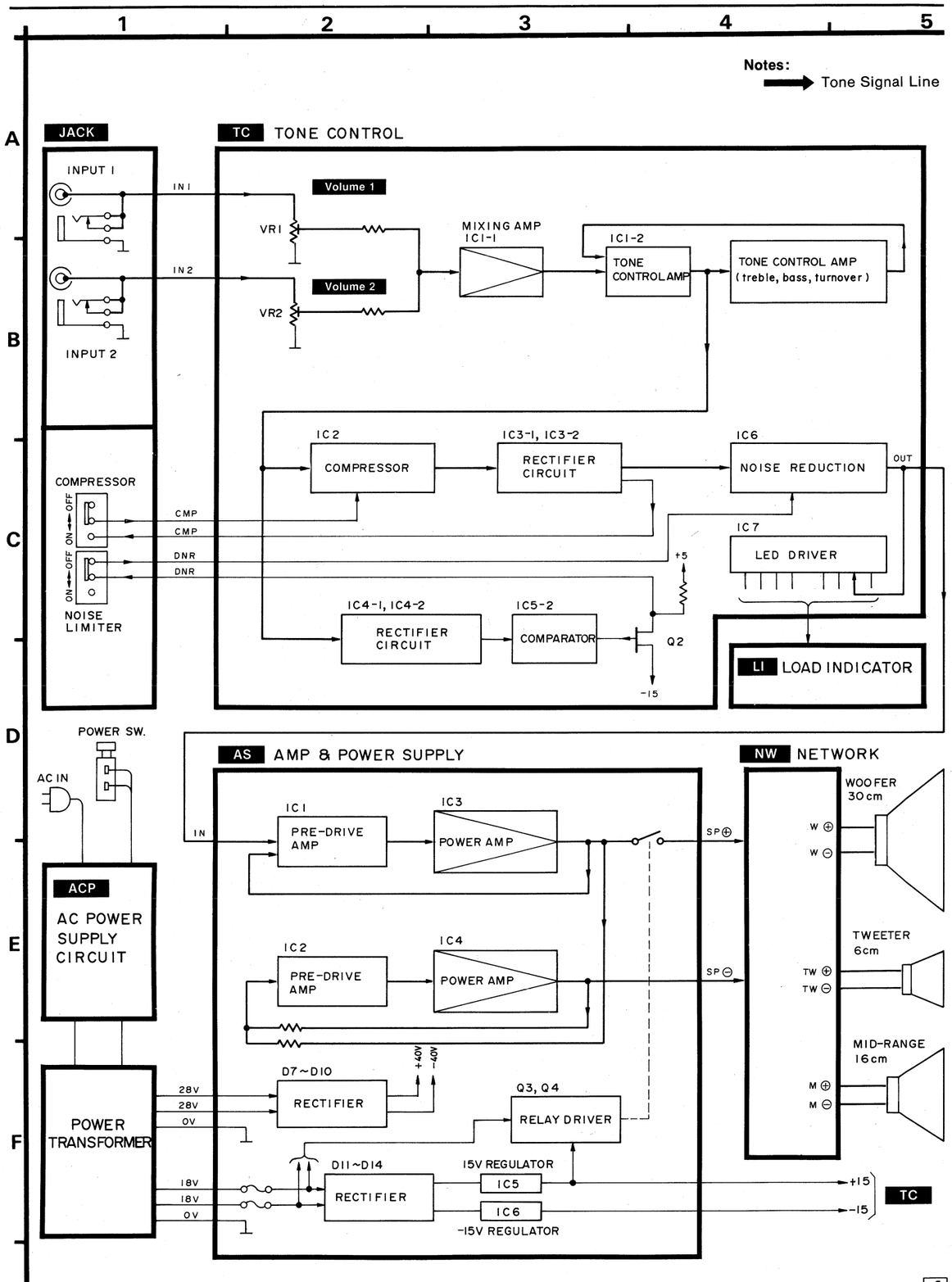
7. Jack Panel

a) Remove the rear board according to step 5.
b) Remove the 4 screws Ⓘ which fasten the shield cover.
c) Remove the 8 screws Ⓙ which fasten the jack panel.
d) The jack panel can then be removed.

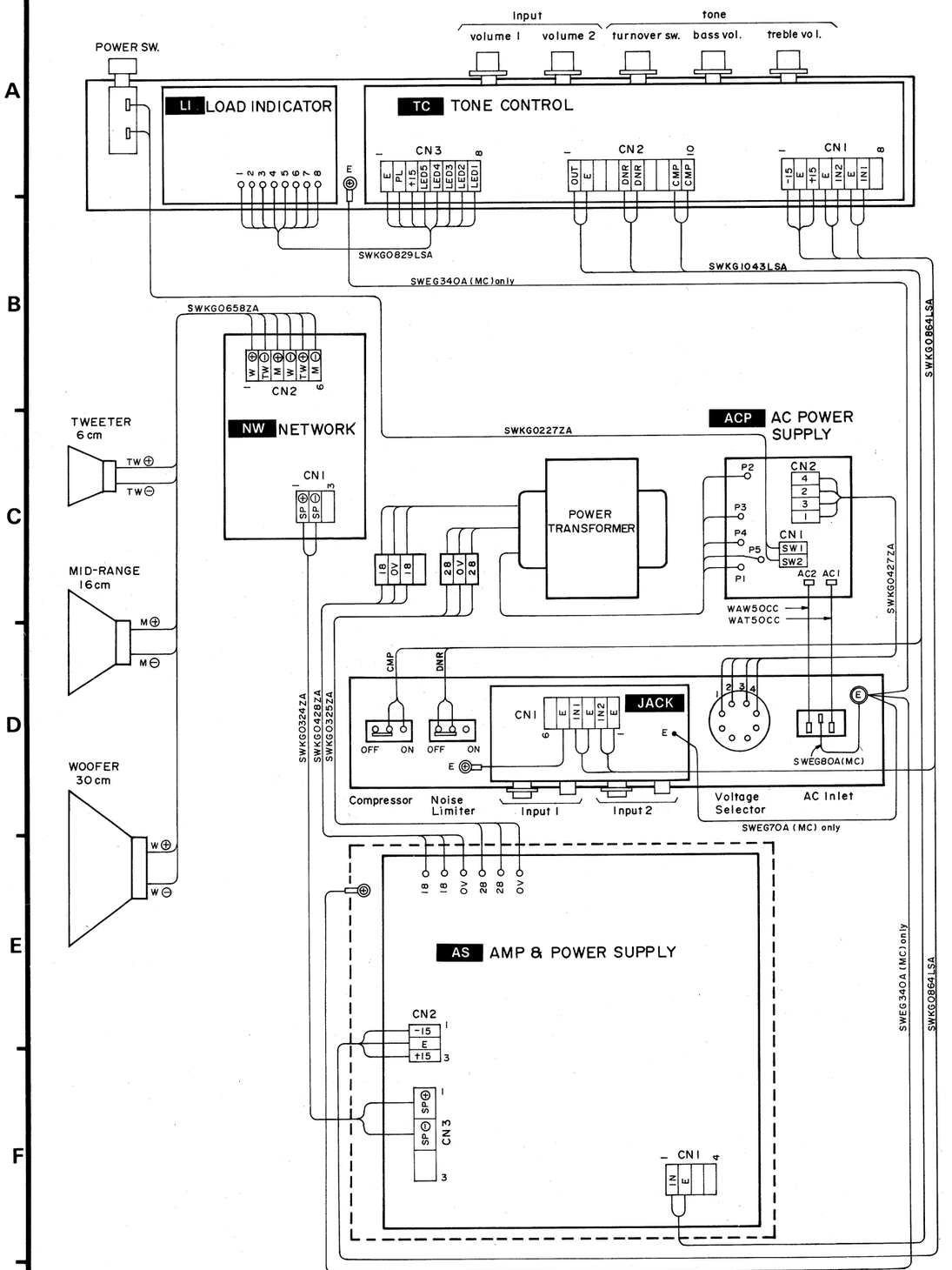


[Fig.-4]

BLOCK DIAGRAM

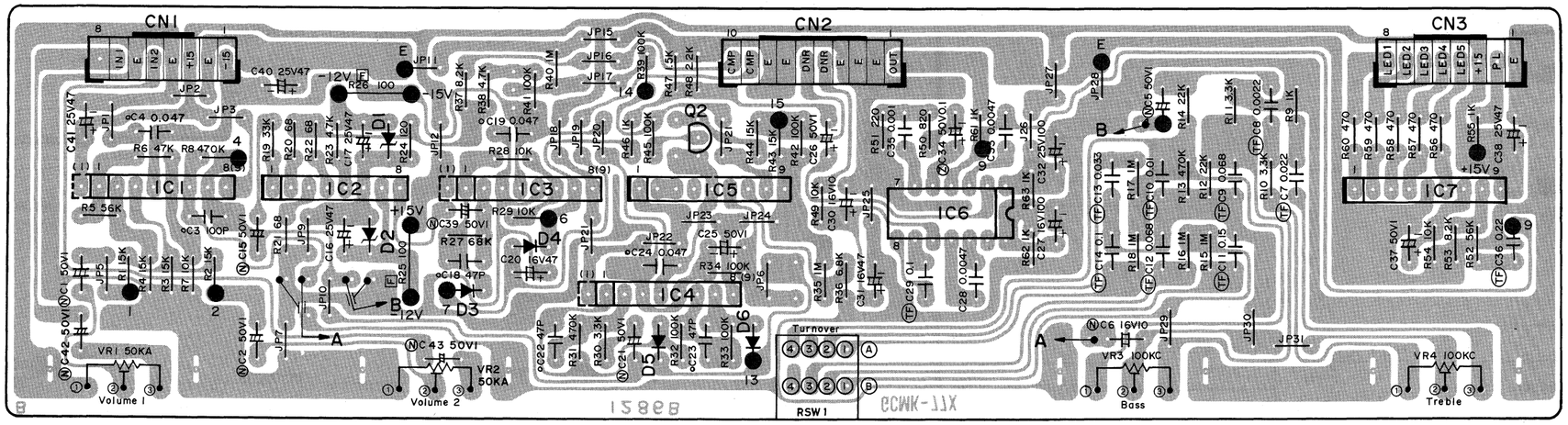


WIRING CONNECTION DIAGRAM



TC TONE CONTROL CIRCUIT BOARD

SXPG128611B



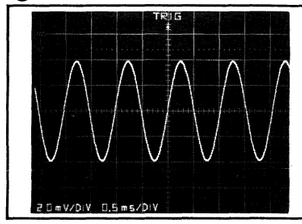
■ Input Volume
- "0" (min) position: 0V
- "10" (max) position: 1.35V

■ Input Volume
- "0" (min) position: 0V
- "10" (max) position: −15V

■ Measuring Conditions

- Input Signal:
  1CH .....1kHz sine wave
  0.28Vrms, 600Ω
- Input Volume:
  "10" position (max.)
- Tone Control:
  Turnover...500Hz
  Bass .....“0” position
  Treble.....“0” position
- Compressor SW.: ON
- Noise Limiter SW.: OFF

❶



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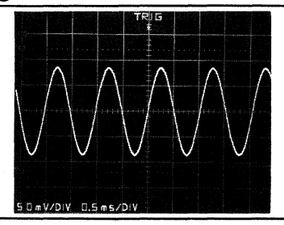

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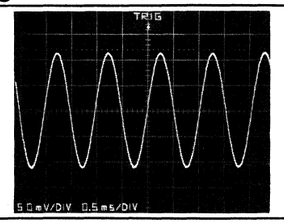
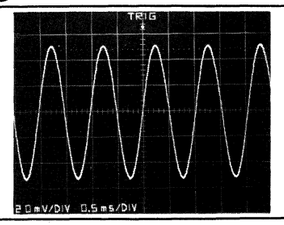


❼

■ Input Volume
- "0" (min) position: 0V
- "10" (max) position: 0.55V

❾

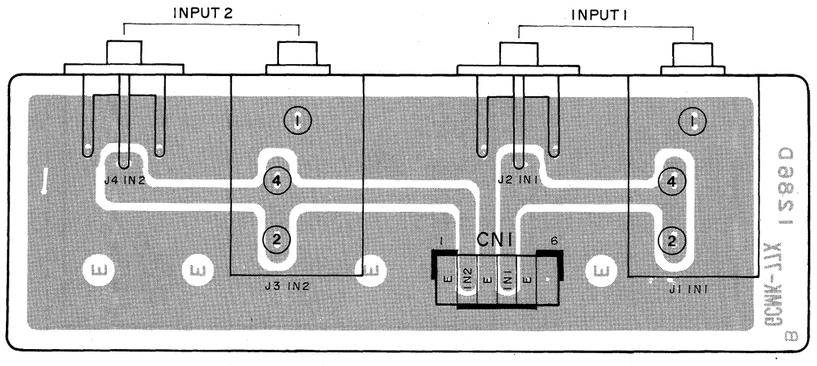


⓯

■ Input Volume
- "0" (min) position: +1.2V
- "10" (max) position: +7V

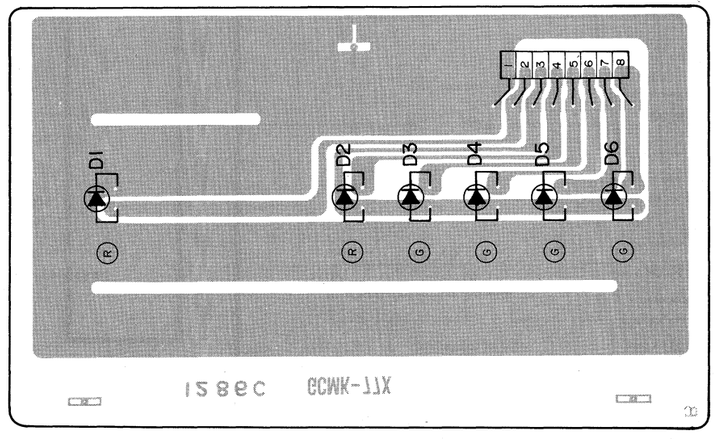
JACK JACK CIRCUIT BOARD

SXPG128611D

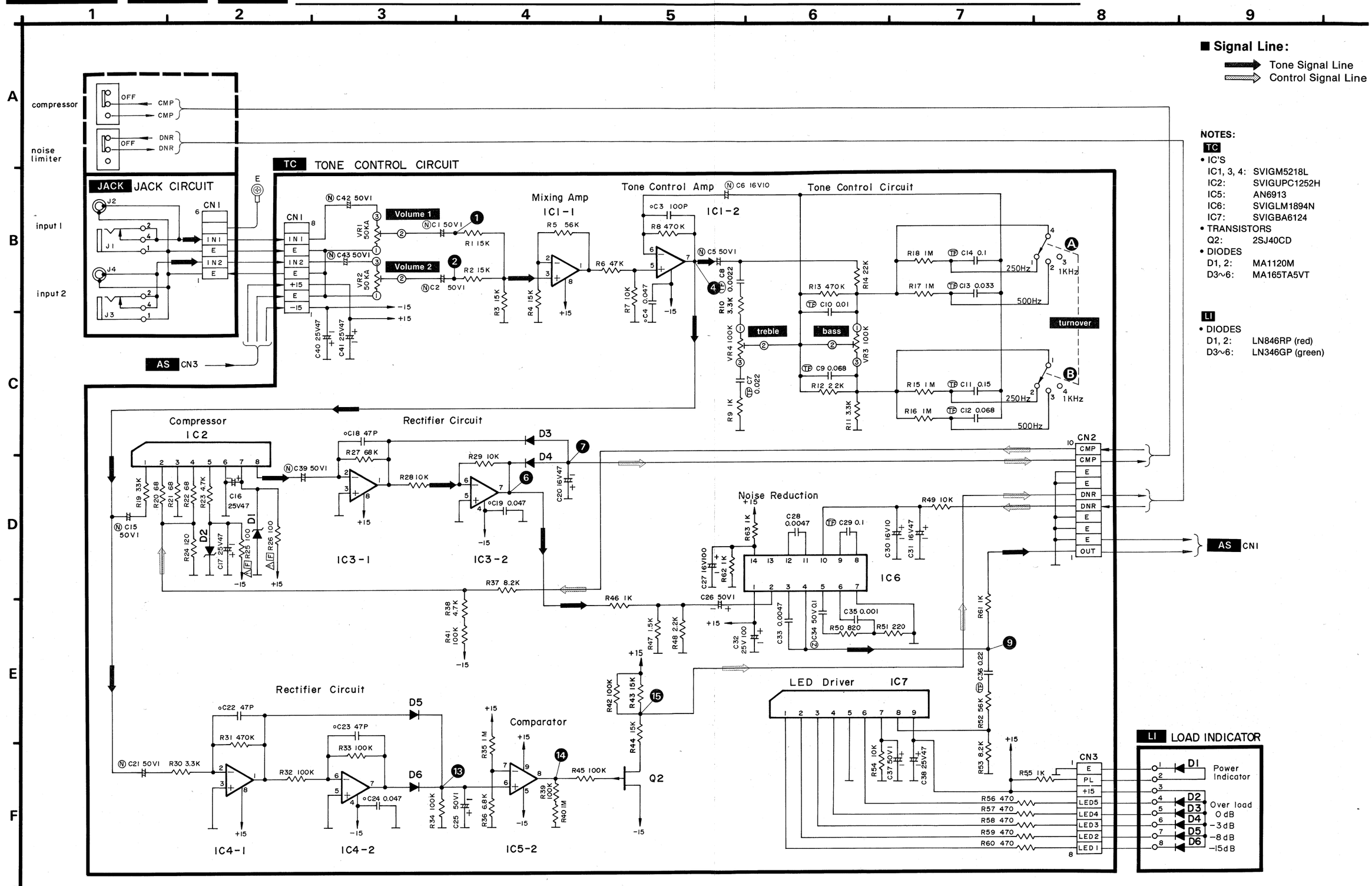


LI LOAD INDICATOR CIRCUIT BOARD

SXPG128611C



JACK TC LI JACK, TONE CONTROL, LOAD INDICATOR CIRCUIT DIAGRAM



NOTES:

TC

- IC'S
  - IC1, 3, 4: SVIGM5218L
  - IC2: SVIGUPC1252H
  - IC5: AN6913
  - IC6: SVIGLM1894N
  - IC7: SVIGBA6124
- TRANSISTORS
  - Q2: 2SJ40CD
- DIODES
  - D1, 2: MA1120M
  - D3~6: MA165TA5VT

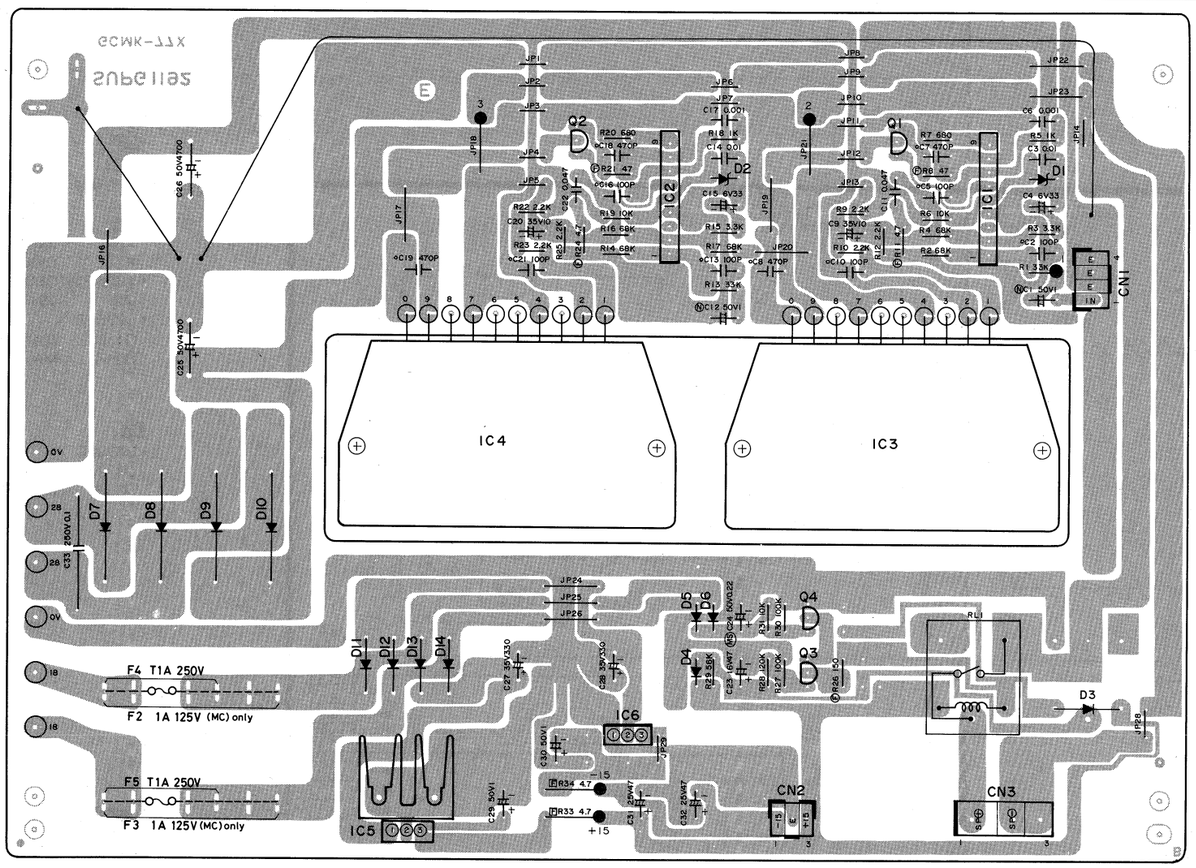
LI

- DIODES
  - D1, 2: LN846RP (red)
  - D3~6: LN346GP (green)

AS AMP & POWER SUPPLY CIRCUIT BOARD

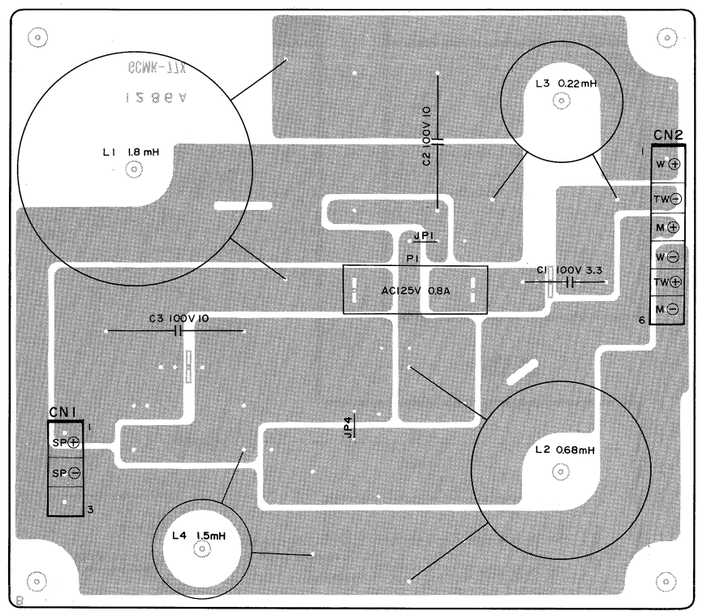
* Products for [MC] only.

SXPG119251 , **SXPG119261**

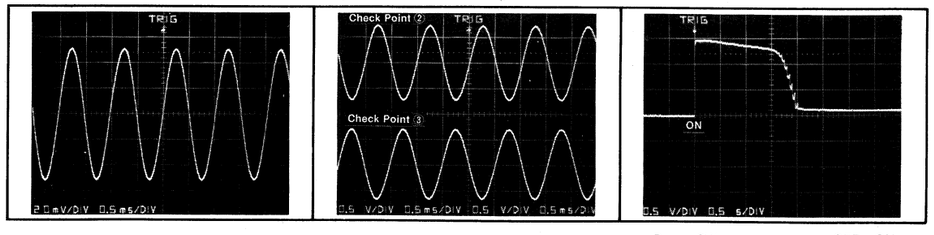


NW NETWORK CIRCUIT BOARD

SXPG128621A



❶ ❷, ❸ **Q3 Collector**



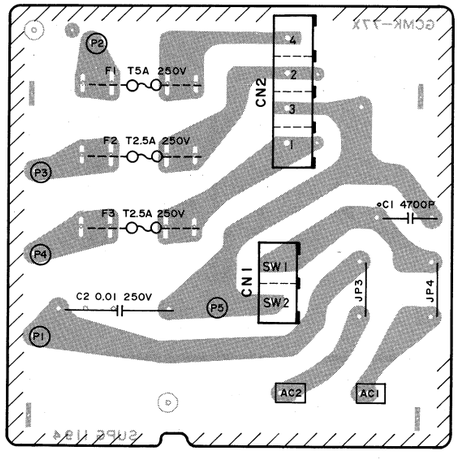
• Power SW.....OFF—ON

■ Measuring Conditions

- Input Signal:
  1CH .....1kHz sine wave
  0.28Vrms, 600Ω
- Input Volume:
  "10" position (max.)
- Tone Control:
  Turnover...500Hz
  Bass .....“0” position
  Treble.....“0” position
- Compressor SW.: ON
- Noise Limiter SW.: OFF

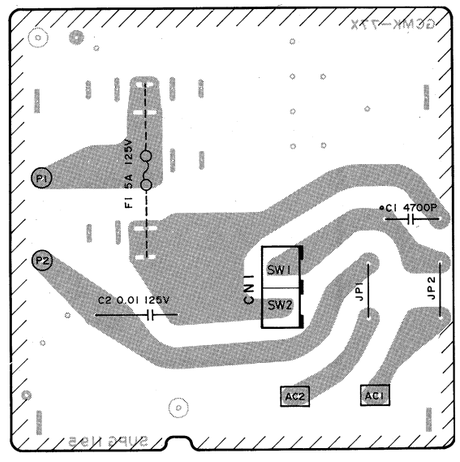
ACP AC POWER SUPPLY CIRCUIT BOARD

SXPG11941

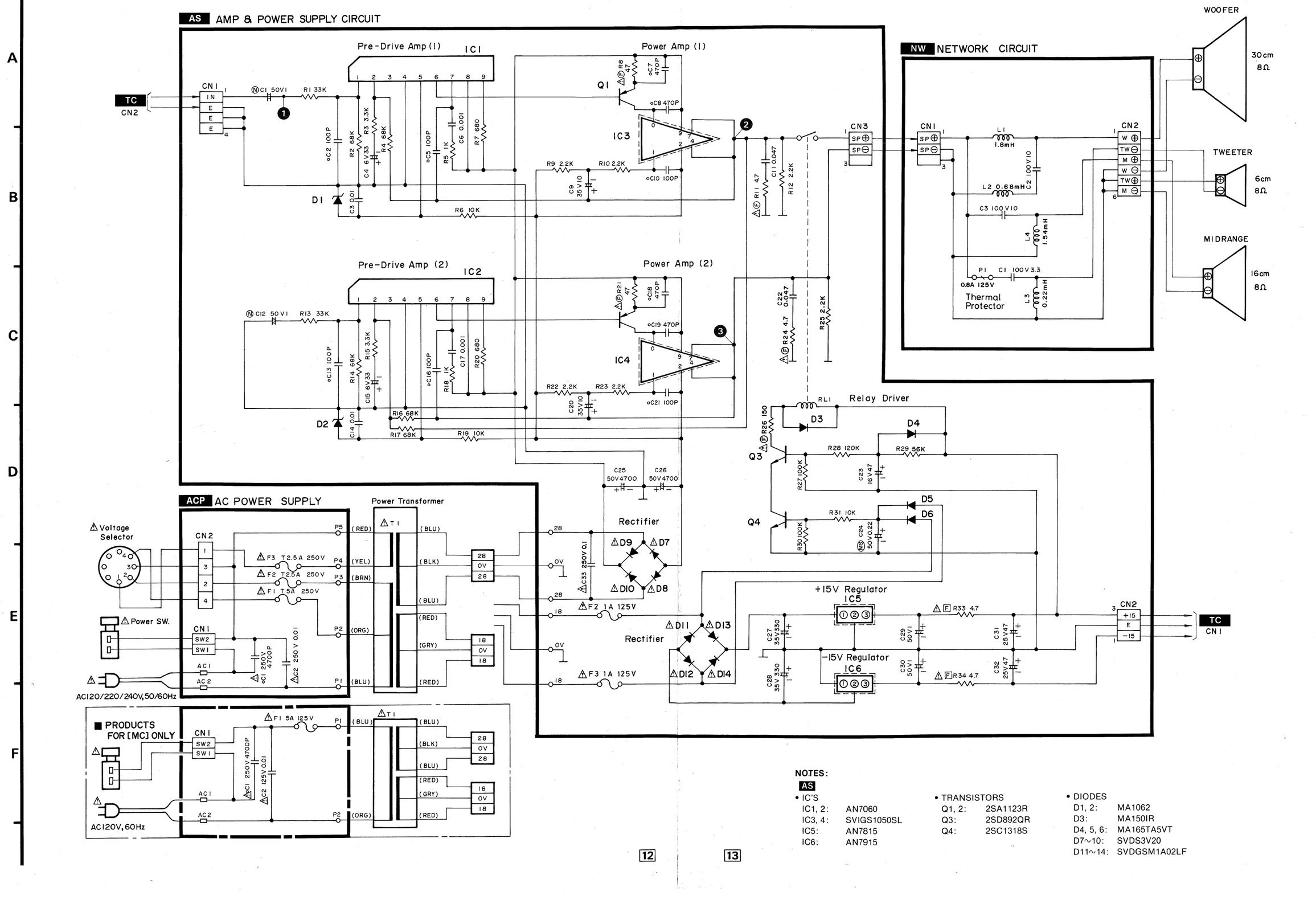


■ **PRODUCTS FOR [MC] ONLY**

SXPG11951



AS ACP NW AMP & POWER SUPPLY, AC POWER SUPPLY, NETWORK CIRCUIT DIAGRAM

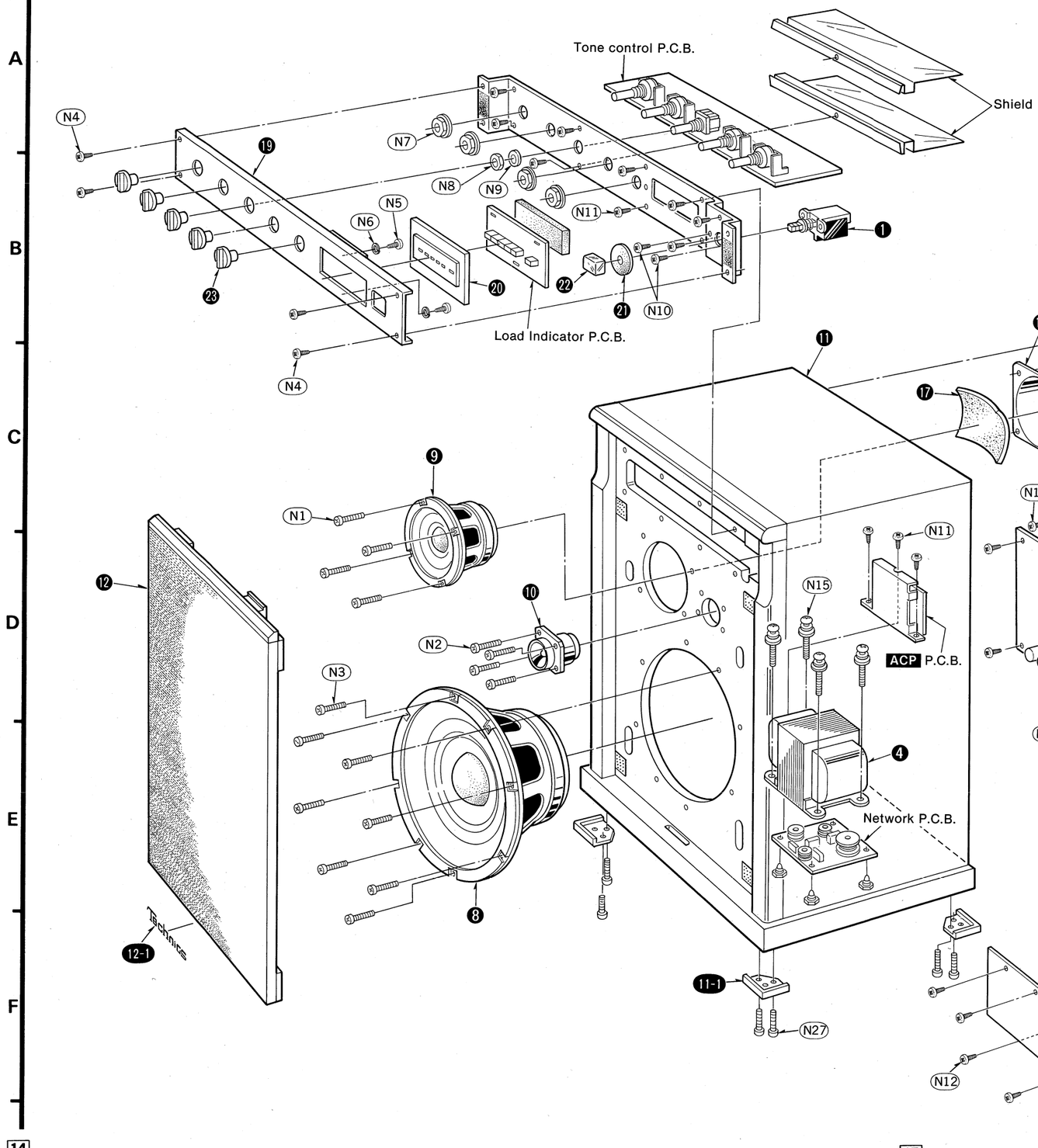


NOTES:

AS

- IC'S
  - IC1, 2: AN7060
  - IC3, 4: SVIGS1050SL
  - IC5: AN7815
  - IC6: AN7915
- TRANSISTORS
  - Q1, 2: 2SA1123R
  - Q3: 2SD892QR
  - Q4: 2SC1318S
- DIODES
  - D1, 2: MA1062
  - D3: MA150IR
  - D4, 5, 6: MA165TA5VT
  - D7~10: SVDS3V20
  - D11~14: SVDGSM1A02LF

EXPLODED VIEWS OF CABINET



14

15

REPLACEMENT PARTS LIST

Notes:

The parts code No. mentioned in the replacement parts list are provided for the future applications. When placing an order for parts, use the part No. available at present for the time being.

1. Printed circuit boards are supplied only during the period of production.
2. Important safety notice
   Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. The "S" mark is service standard parts and may differ from production parts.
4. ○ mark are new parts.
5. For part No. with area mark, check the area when placing an order.

■ CABINET PARTS

	Ref. No.	Part No.	Parts Code	Description	Per/ Set
	SWITCHES, VOLTAGE SELECTOR				
	1 ⚠	ESB70291S	003 435 0591 1	Power Switch	1
	1 MC ⚠	ESB70454T	003 435 0604 3	Power Switch, [MC] only	1
	2	SSSG1005A	003 431 3452 9	Compressor, Noise Limiter	2
	3 ⚠	ESE37209	003 430 0233 5	Voltage Selector, Except for [MC]	1
	POWER TRANSFORMERS				
	4 ⚠	SLTG5S8	001 202 7817 7	Power Transformer	1
	4 MC ⚠	SLTG5S9	001 202 7818 6	Power Transformer, [MC] only	1
	AC INLET, AC CORD, PLUG				
	5 ⚠	SJSG450A	003 400 6935 6	AC Inlet	1
	5 MC ⚠	SJSG460A	003 400 6936 5	AC Inlet, [MC] only	1
	6 ⚠	SJAG46	003 490 4668 0	AC Cord	1
	6 EK XS ⚠	SJAG47	003 490 4669 9	AC Cord, [EK][XS] only	1
	6 XL XR ⚠	SJAG48	003 490 4670 6	AC Cord, [XL][XR] only	1
	6 EW ⚠	SJAG49	003 490 4671 5	AC Cord, [EW] only	1
	6 MC ⚠	SJAG44	003 490 4666 2	AC Cord, [MC] only	1
	7 X XX XV XT ⚠	SJP5213-1	003 492 0736 1	Attachment Plug, [X][XX][XV][XT] only	1
	SPEAKERS				
	8	EAS30PL117SA	001 260 3517 6	Woofer 30cm, 8Ω	1
○	9	EAS16PM266C	001 260 3558 7	Mid-range 16cm, 8Ω	1
○	10	EAS6HH29C	001 260 3559 6	Tweeter 6cm, 8Ω	1
	CABINET				
○	11	SKMG1260A	086 800 0198 5	Cabinet Assembly	1
○	11-1	[SHRG2150C	086 828 0056 6	Foot	4
○	12	SKZG4550A	086 841 0026 5	Speaker Grille	1
	12-1	[SGBG100A	086 863 0002 1	Badge	1
○	13	SKFG1180A	086 802 0313 0	Rear Board	1
	14	SGMG70A	086 844 0012 6	Rear Net	1
	15	SHSG9270A	086 655 0253 4	Sound Absorbing Material	1
	16	SUVS5-1	086 640 0016 6	Speaker Cover	1
	17	SHSG9160A	086 655 0248 1	Sound Absorbing Material	1
	18	SMKG2480A	086 840 0274 6	Jack Panel	1
	18 MC	SMKG2500A	086 840 0276 4	Jack Panel, [MC] only	1
○	19	SGWG1400C	086 840 0372 5	Control Panel	1
○	20	SGKG2080C	086 862 0137 2	Display Panel	1
	21	SHSG4830A	086 655 0188 6	Felt, Power Switch	1
	KNOBS, BUTTON				
	22	SBCG201	086 702 0723 3	Button, Power Switch	1
○	23	SBNG9030A	086 700 0043 0	Knob, Volume 1, 2, Bass, Treble, Turnover	5
	SCREWS and WASHERS				
	N1	XTB4+12AFZ	005 501 0148 1	Screw	12
	N2	XTB35+20AFZ	005 501 3217 3	Screw	4
	N3	XTB4+20AFZ	005 501 0168 7	Screw	16
	N4	XTW3+8CFZ	005 501 3302 7	Screw	4
	N5	XTW3+8J	005 501 2478 8	Screw	2
	N6	XWA4B	005 513 1259 5	Washer	2
	N7	SNES4004	005 507 1450 4	Nut	4
	N8	XNS7	005 507 0569 4	Nut	1
	N9	XWV8	005 513 1636 0	Washer	1
	N10	XSN3+6S	005 500 1449 2	Screw	2
	N11	XTB35+12A	005 501 2753 8	Screw	12
	N12	XTB4+12A	005 501 1126 3	Screw	16
	N13	XTB3+6F	005 501 2687 1	Screw	4
	N14	XTV3+6C	005 501 0888 2	Screw	4
	N15	XYN5+F30S	005 503 0239 9	Screw, with Washers	4
	N16	XWC4BFN	005 513 1314 5	Washer	2
	N17	XTB3+8BFZ	005 501 0134 7	Screw	2
	N18	XYN3+F10FZS	005 503 0172 1	Screw, with Washers Except for [MC]	2
	N19	SHR401-1	086 652 0062 4	Nilon Latch	4
	N20	XNS12FZ	005 507 1452 2	Nut	2
	N21	SNEG770A	005 513 3861 5	Nilon Washer	2
	N22	XYN2+F10FZ	005 503 0880 0	Screw, with Washers	4
	N23	XTV3+16C	005 501 3295 9	Screw	4
	N24	XTT4+30AFZ	005 501 1299 3	Screw	10
	N25	XTS4+70AFZ	005 501 3274 4	Screw	1
	N26	XTV3+12C	005 501 0837 3	Screw	2
	N27	XTS35+20A	005 501 3263 7	Screw	8

■ ACCESSORIES

	Ref. No.	Part No.	Parts Code	Description	Per/ Set
○		SQFGA210	086 983 0187 8	Instruction Book	1
		SJEG10A	003 492 5570 5	Pin Cord (white)	1
		SJEG40A	003 492 5573 2	Microphone Cord	1

■ PRINTED CIRCUIT BOARDS

	Ref. No.	Part No.	Parts Code	Description	Per/ Set
○		SXPG128621A	003 482 6811 9	Network	1
		SXPG128611B	003 482 7869 7	Tone Control	1
		SXPG128611C	003 482 7870 4	Load Indicator	1
		SXPG128611D	003 482 7871 3	Jack	1
		SXPG119251	003 482 7561 4	Amp & Power Supply	1
	MC	SXPG119261	003 482 7562 3	Amp & Power Supply, [MC] only	1
		SXPG11941	003 482 7574 9	AC Power Supply	1
	MC	SXPG11951	003 482 7575 8	AC Power Supply, [MC] only	1

■ NETWORK CIRCUIT (NW)

	Ref. No.	Part No.	Parts Code	Description	Per/ Set
	COILS				
	L1	SLCSC182JU	001 210 2206 2	1.8mH	1
○	L2	SLCSC681KU	001 210 2215 1	0.68mH	1
	L3	SLCSC221KU	001 210 2207 1	0.22mH	1
	L4	SLCSC152JU	001 210 2203 5	1.5mH	1
	CAPACITORS				
	C1	ECQE1335KN	001 106 3457 4	3.3μF, 100V	1
	C2, 3	ECQE1106KN	001 106 2442 5	10μF, 100V	2
	THERMAL PROTECTOR				
	P1	SSYG5823-12A	003 450 2903 0	0.8A, 125V	1

■ Numbering System of Resistor

Resistor Type	Wattage	Tolerance
ERD : Carbon	S2 : 1/4W	G : ±2%
ERD—F : Carbon, Flame-Ploof	2 : 1/4W	J : ±5%
	25 : 1/4W	

Example:

ERD	S2	T	J	101
Type	Wattage	Shape	Tolerance	Value

ERD	2	F	C	G	101
Type	Wattage	Flame Proof	Fuse Type	Tolerance	Value

■ Numbering System of Capacitor

Capacitor Type	Symbol Mark	Voltage		Tolerance
		ECEA Type	Others	
ECEA : Electrolytic		0J : 6.3V	1H : 50V	ECEA Type : ±20%
ECEA—N : Non-Polar Electrolytic	Ⓝ	1C : 16V	1E : 25V	J : ±5%
ECEA—M : Electrolytic, MSR Series	Ⓜ	1E : 25V	1 : 100V	K : ±10%
ECEA—Z : Electrolytic, Z Series	Ⓩ	1V : 35V	1A : 125V	M : ±20%
ECQV : TF Capacitor	Ⓣ	1H : 50V	2A : 250V	Z : +80% −20%
ECQM : Polyester		50M : 50V		
ECC : Ceramic	○	50Z : 50V		
ECK : Ceramic	○			
ECQE : Metalized Polyester				
ECQU : Metalized Polyester				

Example:

Electrolytic:	ECEA	0J	U	330	
	Type	Voltage	Peculiarity use	Value	
Non-Polar:	ECEA	1H	N	010	S
	Type	Voltage	Non-Polar	Value	Special use
MSR, Z Series:	ECEA	50	M(Z)	R22	R
	Type	Voltage	Peculiarity use	Value	Special use
TF, Polyester:	ECQV(M)	1H	102	J	
	Type	Voltage	Value	Tolerance	
Ceramic:	ECC(K)	R	1H	220	J
	Type	Shape	Voltage	Value	Tolerance
Metalized Polyester:	ECQE(U)	1	106	K	N
	Type	Voltage	Value	Tolerance	Use

■ TONE CONTROL CIRCUIT (TC)

Ref. No.	Part No.	Parts Code	Description	Per/ Set
INTEGRATED CIRCUITS				
IC1, 3, 4	SVIGM5218L	001 061 0601 2	Operational Amplifier	3
IC2	SVIGUPC1252H	001 061 0690 5	Compressor	1
IC5	AN6913	001 060 2787 4	Comparator	1
IC6	SVIGLM1894N	001 061 0579 3	Noise Reduction	1
IC7	SVIGBA6124	001 061 0524 8	LED Driver	1
TRANSISTOR				
Q2	2SJ40CD	001 030 2807 5	FET	1
DIODES				
D1, 2	MA1120M	001 032 3947 0	Zener	2
D3~6	MA165TA5	001 032 0495 9	Switching	4
VARIABLE RESISTORS				
VR1, 2	EVA03825A54G	001 174 8414 3	50KΩA, Volume 1, 2	2
VR3, 4	EVA3225C15G	001 174 8424 1	100KΩC, Bass, Treble	2
SWITCH				
SW1	SSRG50A	003 430 2333 4	Turnover	1
RESISTORS				
R1~4	ERDS2TJ153	001 152 2351 7	15KΩ	4
R5	ERDS2TJ563	001 152 2446 1	56KΩ	1
R6	ERDS2TJ473	001 152 2363 3	47KΩ	1
R7	ERDS2TJ103	001 152 2347 3	10KΩ	1
R8	ERDS2TJ474	001 152 2443 4	470KΩ	1
R9	ERDS2TJ102	001 152 2346 4	1KΩ	1
R10, 11	ERDS2TJ332	001 152 2357 1	3.3KΩ	2
R12	ERDS2TJ223	001 152 2432 7	22KΩ	1
R13	ERDS2TJ474	001 152 2443 4	470KΩ	1
R14	ERDS2TJ223	001 152 2432 7	22KΩ	1
R15~18	ERDS2TJ105	001 152 2422 9	1MΩ	4
R19	ERDS2TJ333	001 152 2358 0	33KΩ	1
R20~22	ERDS2TJ680	001 152 2448 9	68Ω	3
R23	ERDS2TJ472	001 152 2362 4	4.7KΩ	1
R24	ERDS2TJ121	001 152 2349 1	120Ω	1
Ⓕ R25, 26 ⚠	ERD2FCG101	001 152 0186 0	100Ω, 1/4W, Fuse Type	2
R27	ERDS2TJ683	001 152 2450 5	68KΩ	1
R28, 29	ERDS2TJ103	001 152 2347 3	10KΩ	2
R30	ERDS2TJ332	001 152 2357 1	3.3KΩ	1
R31	ERDS2TJ474	001 152 2443 4	470KΩ	1
R32~34	ERDS2TJ104	001 152 2348 2	100KΩ	3
R35	ERDS2TJ105	001 152 2422 9	1MΩ	1
R36	ERDS2TJ682	001 152 2365 1	6.8KΩ	1
R37	ERDS2TJ822	001 152 2455 0	8.2KΩ	1
R38	ERDS2TJ472	001 152 2362 4	4.7KΩ	1
R39	ERDS2TJ104	001 152 2348 2	100KΩ	1
R40	ERDS2TJ105	001 152 2422 9	1MΩ	1

Ref. No.	Part No.	Parts Code	Description	Per/ Set
R41, 42	ERDS2TJ104	001 152 2348 2	100KΩ	2
R43, 44	ERDS2TJ153	001 152 2351 7	15KΩ	2
R45	ERDS2TJ104	001 152 2348 2	100KΩ	1
R46	ERDS2TJ102	001 152 2346 4	1KΩ	1
R47	ERDS2TJ152	001 152 2350 8	1.5KΩ	1
R48	ERDS2TJ222	001 152 2353 5	2.2KΩ	1
R49	ERDS2TJ103	001 152 2347 3	10KΩ	1
R50	ERDS2TJ821	001 152 2454 1	820Ω	1
R51	ERDS2TJ221	001 152 2431 8	220Ω	1
R52	ERDS2TJ563	001 152 2446 1	56KΩ	1
R53	ERDS2TJ822	001 152 2455 0	8.2KΩ	1
R54	ERDS2TJ103	001 152 2347 3	10KΩ	1
R55	ERDS2TJ102	001 152 2346 4	1KΩ	1
R56~60	ERDS2TJ471	001 152 2361 5	470Ω	5
R61~63	ERDS2TJ102	001 152 2346 4	1KΩ	3
CAPACITORS				
Ⓝ C1, 2	ECEA1HN010S	001 120 0354 0	1μF, 50V	2
○ C3	ECCR1H101J	001 103 3043 7	100PF	1
○ C4	ECKR1E473ZV	001 103 8056 2	0.047μF	1
Ⓝ C5	ECEA1HN010S	001 120 0354 0	1μF, 50V	1
Ⓝ C6	ECEA1CN100S	001 120 0233 8	10μF, 16V	1
Ⓣ C7	ECQV1H223JZ	001 106 2572 6	0.022μF	1
Ⓣ C8	ECQV1H222JZ	001 106 4390 2	0.0022μF	1
Ⓣ C9	ECQV1H683JZ	001 106 3105 5	0.068μF	1
Ⓣ C10	ECQV1H103JZ	001 106 2570 8	0.01μF	1
Ⓣ C11	ECQV1H154JZ	001 106 3094 1	0.15μF	1
Ⓣ C12	ECQV1H683JZ	001 106 3105 5	0.068μF	1
Ⓣ C13	ECQV1H333JZ	001 106 2575 3	0.033μF	1
Ⓣ C14	ECQV1H104JZ	001 106 2571 7	0.1μF	1
Ⓝ C15	ECEA1HN010S	001 120 0354 0	1μF, 50V	1
C16, 17	ECEA1EU470	001 120 2841 2	47μF, 25V	2
○ C18	ECCR1H470J	001 103 3070 4	47PF	1
○ C19	ECKR1E473ZV	001 103 8056 2	0.047μF	1
C20	ECEA1CU470	001 120 2835 0	47μF, 16V	1
Ⓝ C21	ECEA1HN010S	001 120 0354 0	1μF, 50V	1
○ C22, 23	ECCR1H470J	001 103 3070 4	47PF	2
○ C24	ECKR1E473ZV	001 103 8056 2	0.047μF	1
C25, 26	ECEA1HU010	001 120 2842 1	1μF, 50V	2
C27	ECEA1CU101	001 120 2926 8	100μF, 16V	1
C28	ECQM1H472KV	001 106 2972 4	0.0047μF	1
Ⓣ C29	ECQV1H104JZ	001 106 2571 7	0.1μF	1
C30	ECEA1CU100	001 120 2905 3	10μF, 16V	1
C31	ECEA1CU470	001 120 2835 0	47μF, 16V	1
C32	ECEA1EU101	001 120 2837 8	100μF, 25V	1
C33	ECQM1H472KV	001 106 2972 4	0.0047μF	1
Ⓩ C34	ECEA50ZR1	001 120 1274 5	0.1μF, 50V	1
C35	ECQM1H102KV	001 106 2946 6	0.001μF	1
Ⓣ C36	ECQV1H224JZ	001 106 2514 6	0.22μF	1
C37	ECEA1HU010	001 120 2842 1	1μF, 50V	1
C38	ECEA1EU470	001 120 2841 2	47μF, 25V	1
Ⓝ C39	ECEA1HN010S	001 120 0354 0	1μF, 50V	1
C40, 41	ECEA1EU470	001 120 2841 2	47μF, 25V	2
Ⓝ C42, 43	ECEA1HN010S	001 120 0354 0	1μF, 50V	2

■ LOAD INDICATOR CIRCUIT (LI)

Ref. No.	Part No.	Parts Code	Description	Per/ Set
DIODES				
D1, 2	LN846RP	001 032 3839 3	LED (red)	2
D3~6	LN346GP	001 032 3829 5	LED (green)	4

■ JACK CIRCUIT (JACK)

Ref. No.	Part No.	Parts Code	Description	Per/ Set
JACKS				
J1, 3	SJJG150A	003 400 6903 4	Large Jack	2
J2, 4	SJJG30A	003 400 1459 3	Pin Jack	2

■ AMP & POWER SUPPLY CIRCUIT (AS)

Ref. No.	Part No.	Parts Code	Description	Per/ Set
INTEGRATED CIRCUITS				
IC1, 2	AN7060	001 060 0302 5	Power Amp Driver	2
IC3, 4	SVIGS1050SL	001 061 0657 6	Power IC	2
IC5	AN7815	001 060 4217 5	Voltage Regulator	1
IC6	AN7915	001 060 9694 0	Voltage Regulator	1
TRANSISTORS				
Q1, 2	2SA1123R	001 030 4460 4		2
Q3	2SD892QR	001 030 5519 8		1
Q4	2SC1318S	001 030 3321 8		1
DIODES				
D1, 2	MA1062	001 032 0434 2	Zener	2
S D3	MA162A	001 032 0493 1	Switching	1
D4~6	MA1651A5	001 032 0495 9	Switching	3
D7~10 ⚠	SVDS3V20	001 032 1346 7	Rectifier	4
D11~14 ⚠	SVDGSM1A02LF	001 032 8268 6	Rectifier	4
RELAY				
RL1	SSYGMR3112D	003 450 2900 3		1
FUSES				
F2, 3 MC ⚠	XBA1F10NU14	002 380 0309 7	1A, 125V, [MC] only	2
F4, 5 ⚠	XBA2C10TB0	002 380 1351 1	1A, 250V, Except for [MC]	2
RESISTORS				
R1	ERDS2TJ333	001 152 2358 0	33KΩ	1
R2	ERDS2TJ683	001 152 2450 5	68KΩ	1
R3	ERDS2TJ332	001 152 2357 1	3.3KΩ	1
R4	ERDS2TJ683	001 152 2450 5	68KΩ	1
R5	ERDS2TJ102	001 152 2346 4	1KΩ	1
R6	ERDS2TJ103	001 152 2347 3	10KΩ	1
R7	ERDS2TJ681	001 152 2449 8	680Ω	1
Ⓕ R8 ⚠	ERD25FVJ470	001 152 6216 7	47Ω, 1/4W, Flame Proof	1
R9, 10	ERDS2TJ222	001 152 2353 5	2.2KΩ	2
Ⓕ R11 ⚠	ERD25FVJ4R7	001 152 6215 8	4.7Ω, 1/4W, Flame Proof	1
R12	ERDS2TJ222	001 152 2353 5	2.2KΩ	1
R13	ERDS2TJ333	001 152 2358 0	33KΩ	1
R14	ERDS2TJ683	001 152 2450 5	68KΩ	1
R15	ERDS2TJ332	001 152 2357 1	3.3KΩ	1
R16, 17	ERDS2TJ683	001 152 2450 5	68KΩ	2
R18	ERDS2TJ102	001 152 2346 4	1KΩ	1
R19	ERDS2TJ103	001 152 2347 3	10KΩ	1
R20	ERDS2TJ681	001 152 2449 8	680Ω	1
Ⓕ R21 ⚠	ERD25FVJ470	001 152 6216 7	47Ω, 1/4W, Flame Proof	1
R22, 23	ERDS2TJ222	001 152 2353 5	2.2KΩ	2
Ⓕ R24 ⚠	ERD25FVJ4R7	001 152 6215 8	4.7Ω, 1/4W, Flame Proof	1
R25	ERDS2TJ222	001 152 2353 5	2.2KΩ	1
Ⓕ R26 ⚠	ERD25FVJ151	001 152 6213 0	150Ω, 1/4W, Flame Proof	1
R27	ERDS2TJ104	001 152 2348 2	100KΩ	1
R28	ERDS2TJ124	001 152 2425 6	120KΩ	1
R29	ERDS2TJ563	001 152 2446 1	56KΩ	1
R30	ERDS2TJ104	001 152 2348 2	100KΩ	1
R31	ERDS2TJ103	001 152 2347 3	10KΩ	1
Ⓕ R33, 34 ⚠	ERD2FCJ4R7	001 152 2480 9	4.7Ω, 1/4W, Fuse Type	2
CAPACITORS				
Ⓝ C1	ECEA1HN010S	001 120 0354 0	1μF, 50V	1
○ C2	ECCR1H101J	001 103 3043 7	100PF	1
C3	ECQM1H103KV	001 106 2407 8	0.01μF	1
C4	ECEA0JU330	001 120 3162 4	33μF, 6V	1
○ C5	ECCR1H101J	001 103 3043 7	100PF	1
C6	ECQM1H102KV	001 106 2946 6	0.001μF	1
○ C7, 8	ECCR1H471J	001 103 3861 1	470PF	2
C9	ECEA1VU100	001 120 3270 1	10μF, 35V	1
○ C10	ECCR1H101J	001 103 3043 7	100PF	1
C11	ECQM1H473KV	001 106 2473 8	0.047μF	1
Ⓝ C12	ECEA1HN010S	001 120 0354 0	1μF, 50V	1
○ C13	ECCR1H101J	001 103 3043 7	100PF	1
C14	ECQM1H103KV	001 106 2407 8	0.01μF	1
C15	ECEA0JU330	001 120 3162 4	33μF, 6V	1
○ C16	ECCR1H101J	001 103 3043 7	100PF	1
C17	ECQM1H102KV	001 106 2946 6	0.001μF	1
○ C18, 19	ECCR1H471J	001 103 3861 1	470PF	2
C20	ECQM1H473KV	001 106 2473 8	0.047μF	1
○ C21	ECCR1H101J	001 103 3043 7	100PF	1
C22	ECQM1H473KV	001 106 2473 8	0.047μF	1
C23	ECEA1CU470	001 120 2835 0	47μF, 16V	1
Ⓜ C24	ECEA50MR22R	001 120 1100 6	0.22μF, 50V	1
C25, 26	ECET50R472SW	001 120 2169 1	4700μF, 50V	2
C27, 28	ECEA1VU331	001 120 3274 7	330μF, 35V	2
C29, 30	ECEA1HU010	001 120 2842 1	1μF, 50V	2
C31, 32	ECEA1EU470	001 120 2841 2	47μF, 25V	2
C33 ⚠	ECQE2A104MW	001 106 2468 5	0.1μF, 250V, Across the Line	1

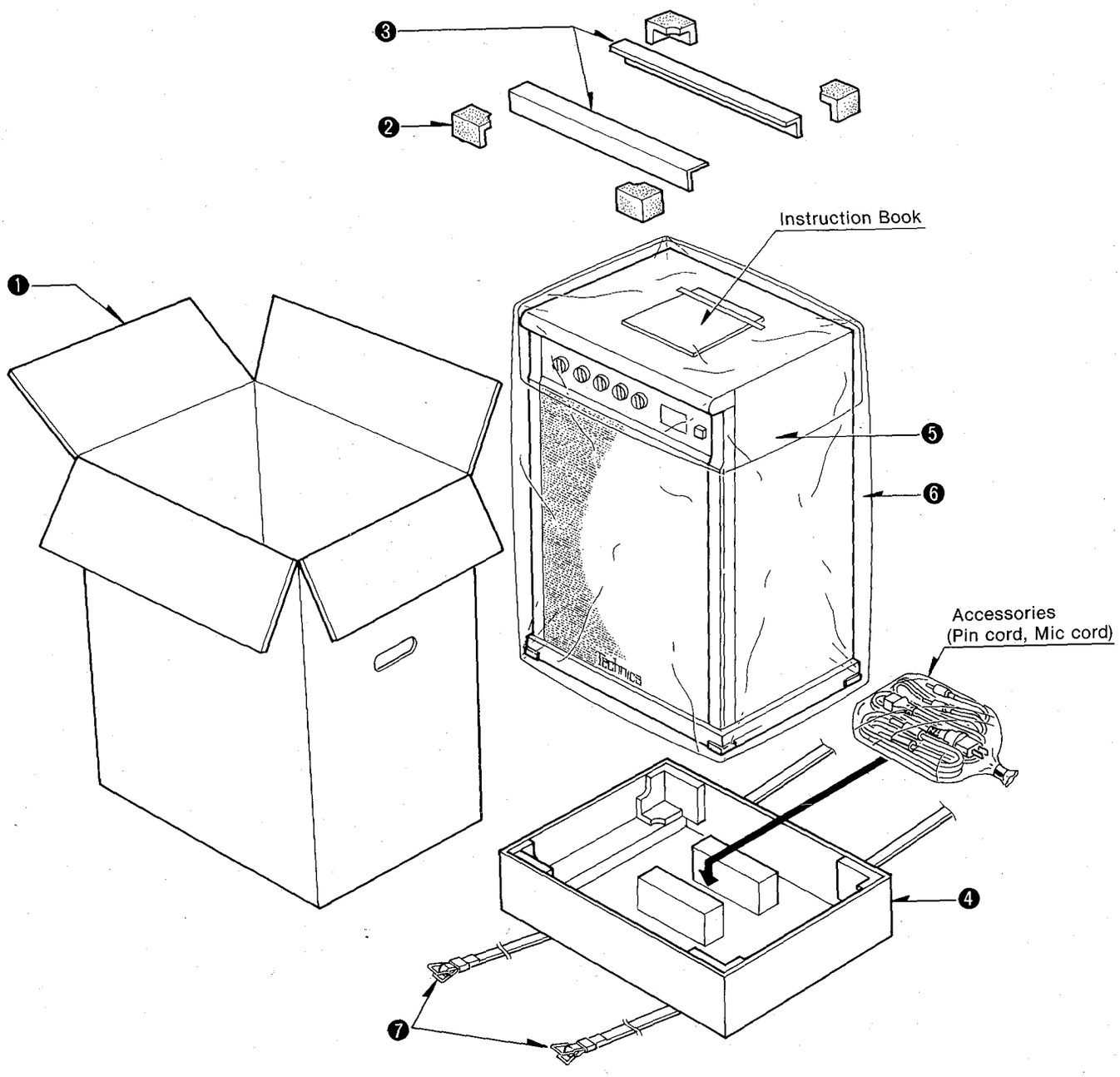
■ AC POWER SUPPLY CIRCUIT (ACP)

Ref. No.	Part No.	Parts Code	Description	Per/ Set
FUSES				
F1 ⚠	XBA2C50TB0	002 380 1358 4	5A, 250V } Except	1
F2, 3 ⚠	XBA2C25TB0	002 380 1330 6	2.5A, 250V } for [MC]	2
F1 MC ⚠	XBA1F50NU14	002 380 0324 8	5A, 125V, [MC] only	1
CAPACITORS				
○ C1 ⚠	ECKCVA1472MF	001 103 8054 4	4700PF, Across the Line	1
C2 ⚠	ECQU2A103MF	001 230 0949 6	0.01μF, 250V, Across the Line	1
C2 MC ⚠	ECQU1A103MH	001 106 4883 6	0.01μF, 125V, Across the Line, [MC] only	1

■ WIRING PARTS (See wiring connection diagram on page 5)

Ref. No.	Part No.	Parts Code	Description	Per/ Set
	SWKG0829LSA	086 934 0288 9	Connector, with Wire	1
	SWKG1043LSA	086 934 0359 1	Connector, with Wire	1
	SWKG0864LSA	086 934 0324 2	Connector, with Wire	1
	SWKG0658ZA	086 934 0263 8	Connector, with Wire	1
	SWKG0227ZA	086 934 0059 0	Connector, with Wire	1
	SWKG0324ZA	086 934 0076 9	Connector, with Wire	1
	SWKG0428ZA	086 934 0143 5	Connector, with Wire	1
	SWKG0325ZA	086 934 0077 8	Connector, with Wire	1
	SWKG0427ZA	086 934 0141 7	Connector, with Wire Except for [MC]	1
	WAW50CC	086 934 0675 2	Wire	1
	WAT50CC	086 934 0676 1	Wire	1
MC	SWEG340A	086 934 0027 8	Wire }	1
MC	SWEG80A	086 934 0031 2	Wire } [MC] only	1
MC	SWEG70A	086 934 0030 3	Wire }	1

PACKING



■ PACKING PARTS

Ref. No.	Part No.	Parts Code	Description	Per/ Set
○	SPNGT80EA	086 971 0063 5	Packing Parts Assembly	1
○ 1	SPNG1628A	086 971 0064 4	Carton Box	1
2	SPS747-1	086 977 0003 7	Pad	4
3	SPNG1602A	086 977 0004 6	Spacer	2
4	SPNG1601A	086 971 0065 3	Bottom Case	1
5	SPHG610A	086 979 0021 5	Protection Cover	1
6	SPHG651A	086 978 0019 4	Polyethylene Bag	1
7	SPSG10A	086 975 0002 8	Band	2